

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

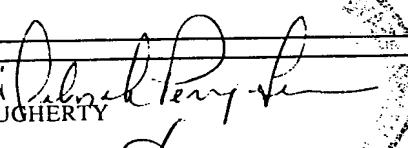
To: JEFFREY K. WEAVER BEYER WEAVER & THOMAS, PPL P.O. BOX 130 MOUNTAIN VIEW CA 94042-0130	<div style="border: 1px solid black; padding: 5px; width: 100%;"> BEYER WEAVER & THOMAS, LLP ATTY: JKW ASSOC: WJP ACTION: Voluntary Claim Amend 8 IDS DUE DATES: 2/28/01 # 1/30/01 </div>
Applicant's or agent's file SRI1PO21.WO	DOCKETED: 1/30/01 BY: 8mm DOCKET NO.: SRI1PO21WO
International application No. PCT/US00/19951	International filing date (day/month/year) 20 JULY 2000
Applicant SRI INTERNATIONAL	

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing (day/month/year)	28 DEC 2000
FOR FURTHER ACTION See paragraphs 1 and 4 below	
1. <input checked="" type="checkbox"/> The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 For more detailed instructions , see the notes on the accompanying sheet.	
2. <input type="checkbox"/> The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.	
3. <input type="checkbox"/> With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: <input type="checkbox"/> the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. <input type="checkbox"/> no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.	
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.	

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer  THOMAS M. DOUGHERTY Telephone No. (703) 308-1628
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: JEFFREY K. WEAVER
 BEYER WEAVER & THOMAS, PLLC
 P.O. BOX 130
 MOUNTAIN VIEW CA 94042-0130

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

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International application No. PCT/US00/19951	International filing date <i>(day/month/year)</i> 20 JULY 2000
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Applicant SRI INTERNATIONAL

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

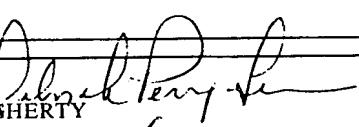
- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18** months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within **19** months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20** months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer  THOMAS M. DOUGHERTY Telephone No. (703) 308-1628
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SRI1PO21.WO	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US00/19951	International filing date (<i>day/month/year</i>) 20 JULY 2000	(Earliest) Priority Date (<i>day/month/year</i>) 20 JULY 2000
Applicant SRI INTERNATIONAL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (See Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1C

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/19951

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)**NEW ABSTRACT**

The present invention relates to transducers (100), their use and fabrication. The transducers (100) convert between mechanical and electrical energy. Some transducers (100) of the present invention include a pre-strained polymer (102). The pre-strain improves the conversion between electrical and mechanical energy. The present invention also relates to devices including an electroactive polymer (102) to convert between electrical and mechanical energy. The present invention further relates to compliant electrodes (104,106) that conform to the shape of a polymer (102) included in a transducer (100). The present invention provides methods for fabricating electromechanical devices including one or more electroactive polymers.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/19951

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :HOIL/41/08

US CL : 310/800,339,328

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 310/800,339,328

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
310/328,339,800

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,401,911A (RAVINET ET AL) 30 August 1983 (30.08.1983); FIGS. 9-12; COL. 2, LL. 44-52; COL. 6, LL. 3-9	1-39,42-46, 69-97
Y	US 4,518,555 A (RAVIENT ET AL) 21 May 1985 (21.05.1985). FIGS. 6, 9, 11-13; COL. 2 LL. 46-54, COL. 6, LL. 7-13.	1-39,42-46,69-97
Y	US 5,915,377 A (COFFEE) 29 June 1999 (29.06.1999); CLAIM 8.	1-39,42-46,52-54
Y,P	US 6,048,622 A (HAGOOD, IV. ET AL.) 11 April 2000 (11.04.2000) COL. 8, LL.24-32.	37-39,42-46, 74-97
Y	US 4,384,394 A (LEMONON ET AL) 24 May 1983 (24.05.1983); COL. 2, LL.50-60.	52-54

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

30 OCTOBER 2000

Date of mailing of the international search report

28 DEC 2000

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks

Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

THOMAS M. DOUGHERTY

Telephone No. (703) 308-1628

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/19951

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,430,565 A (YAMANOUCHI ET AL) 04 July 1995 (04.07.1995); COL. 6, LL.56-60, COL. 8, LL.1-19	53
Y	US 5,250,784 A (MULLER, ET AL) 05 October 1993 (05.10.1993); ABSTRACT; CLAIMS 1, 7,9,11.	69-73